

Application No. 09/252,691  
Attorney's Docket No. 032796-033

## EXHIBIT A

>gi|1787371|gb|AE000213.1|AE000213 Escherichia coli K12 MG1655 section 103 of 400 of  
the complete genome  
Length = 10959

Score = 85.7 bits (43), Expect = 5e-14  
Identities = 73/83 (87%)  
Strand = Plus / Minus

Query: 1 gctataatgcggcaattgataacgcctgaaaataccatgacgaaaacttcttttagaaaa 60  
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 9268 gctataatgcggcaattcataatctctgaaaataccatgcaaaaacttcttttagaaat 9209

Query: 61 caccgggttgagcgattcagctc 83  
||||| ||||| ||||| |||||  
Sbjct: 9208 caccaggttaagcgattcagctc 9186

Score = 81.8 bits (41), Expect = 8e-13  
Identities = 188/237 (79%)  
Strand = Plus / Minus

Query: 114 ccagccaaacgcgggtcatactgttcaataaacccctacgatgtattgccgcagttaccga 173  
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 9155 ccagcccacgcgtgtgatcctgttcaataaacccctacgatgttctccgcagttaccga 9096

Query: 174 cgaggccgggcgcagcacgctgaaggactttatccccgtacagggagtctacgcagcggg 233  
||| ||||| ||||| ||| ||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 9095 tgaagccggacgcaaaacattaaaagaattcatcccggttcaggggtttatgcagcagg 9036

Query: 234 acgtctggatcgacagcgaggggctgtggccttaccaatgacggcgtgtccaggc 293  
||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 9035 tcgccttgaccgcgatagcgaagggttgctggcgtgaccaataacggcgcgtgcaggc 8976

Query: 294 caggcttactcagccggcaaaccttacggaaaaatttactatgtcaggttgaagg 350  
| | | ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 8975 gcgtttaacccagccggtaaacgcacccggaaaaatctattatgtcaggttggagg 8919

Score = 71.9 bits (36), Expect = 8e-10  
Identities = 132/164 (80%)  
Strand = Plus / Minus

Query: 442 gaacctcgagtggctgtggccgcacccggattcgtgacgcgtaaatccattcacc 501  
||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 8827 gaacctcggttgttatggccgcggatccaccaattcgtgaacgcaaaagtattcccacc 8768

Query: 502 agctggctaaaatcaccctttatgaaggccacaaccgcacaggtcaggcgcattgcg 561  
||||||| ||| ||||| | ||||| ||||| ||||| ||||| |||||  
Sbjct: 8767 agctggctgaagatcaccttatatgaaggacgtaatcgccaggtgcgcgcattgcgc 8708

Query: 562 catgtggcttccctaccctgcgactcattcgctacgccatggg 605  
||||| ||||| ||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 8707 catgtggcttccctaccctgcgactcattcgctatgcgcattggg 8664

>gi|1651553|dbj|D90748.1|D90748 Escherichia coli genomic DNA. (25.6 - 25.9 min)  
Length = 15007

Score = 85.7 bits (43), Expect = 5e-14  
Identities = 73/83 (87%)  
Strand = Plus / Minus

Query: 1 gctataatgcggcaattgataacgcctgaaaataccatgacgaaaacttcttttagaaaa 60  
Sbjct: 11191 gctataatgcggcaattcataatctctgaaaataccatgaaaaaaaaacttcttttagaaat 11132

Query: 61 caccgggtttagcgattcagtc 83  
Sbjct: 11131 caccaggtaagcgattcagtc 11109

Score = 81.8 bits (41), Expect = 8e-13  
Identities = 188/237 (79%)  
Strand = Plus / Minus

Query: 114 ccagccaacgcgggtcatactgttcaataaaccctacgatgtattgccgcagttaccga 173  
Sbjct: 11078 ccagcccacgcgtgtatcctgttcaataaaccctacgatgttccgcagttaccga 11019

Query: 174 cgaggccgggcgcagcacgctgaaggacttatccccgtacaggagtcacgcagcggg 233  
Sbjct: 11018 tgaaggccggacgcaaaacattaaaagaattcatccccgttcaagggtgttatgcaggcagg 10959

Query: 234 acgtctggatcgcgacagcgagggtctgtgtcattaccatgacggcgtgtccaggc 293  
Sbjct: 10958 tcgccttaccgcgatagcgaagggttctgtgtgaccataacggcgcgttcaggc 10899

Query: 294 caggcttactcagccggcaaacgtaccggaaaaatttactatgtcaggttgaagg 350  
Sbjct: 10898 gcgtttaaccagccggtaaacgcaccggaaaaatctattatgtcaggttgaagg 10842

Score = 71.9 bits (36), Expect = 8e-10  
Identities = 132/164 (80%)  
Strand = Plus / Minus

Query: 442 gaacccgagtggctgtggccgcacaaccggcattcgtgagcgtaatccattcctacc 501  
Sbjct: 10750 gaaccgcgtggtatggccgcgaatccaccaattcgtgaacgaaaagtattccacc 10691

Query: 502 agctggcttaaaatcaccctttatgaaggccgcaaccgacaggtcaggcgcatgactg 561  
Sbjct: 10690 agctggctgaagatcaccttatatgaaggacgtaatgccaggcgcgcattgaccgc 10631

Query: 562 catgtggcttcctaccctgcgactcattcgctacgccatggg 605  
Sbjct: 10630 catgtggcttccccacgctgcgactgattcgctatgcgtatggg 10587